

Work Order ID 66582

Tuesday, February 22, 2011 11:34:03 AM



Page 1

Item ID: D4095-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Wearplate Assembly

Start Date: 2/23/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 2/28/2011 Req'd Qty: 2.00



Customer:

chip Friday

Reference:

Approvals:

Process Plan:

mt

Date:

11-02-87

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4095	A

100 Pick Kit

0.00



Packaging

Memo

0.00

Packaging

110



Small Fab

Small Fab

Memo

0.00

0.00

1- Bond gasket to inner surface of waerplate as per dwg
A/R 3M Scotch grip adhesive Batch:

APPLY THIN COAT PLUS ONE ROCKWELL

11-02-24

120



QC

Quality Control

QC5- Inspect part completeness to step on W/O

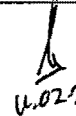
0.00

Memo

0.00

Cancelled

PTO

W/O: 66582		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
11/02/24	110	AFTER LOCKDOWN IS DLT, TRANSFER DRILL 4 HOLES TO WEARPLATES PER DSI 9517 REV. A				 11/02/24		

Part No: D4095041 PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 66582

Page 2

Tuesday, February 22, 2011 11:34:03 AM

Item ID: D4095-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Wearplate Assembly

Start Date: 2/23/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 2/28/2011 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

Identify as per dwg & Stock Location: _____

0.00



Packaging

Memo

0.00

Packaging

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

Tuesday, February 22, 2011 11:34:00 AM

Work Order ID: 66582



Parent Item: D4095-041



Parent Item Name: Wearplate Assembly



Start Date: 2/23/2011

Required Date: 2/28/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A new issue DD 10.04.26 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4095-1  Wearplate		Manufactured	No			100	Each	0.0000	1	2			
D4096-1  Gasket		Manufactured	No			100	Each	2.0000	1	2			

~~B66503~~ (4x)



~~25 H 02-24~~

Location

Loc Qty

Loc Code

ENG

2

58019

2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

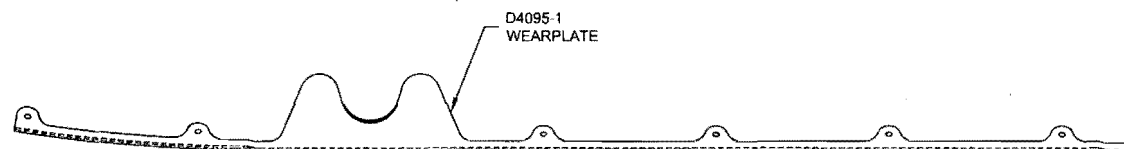
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

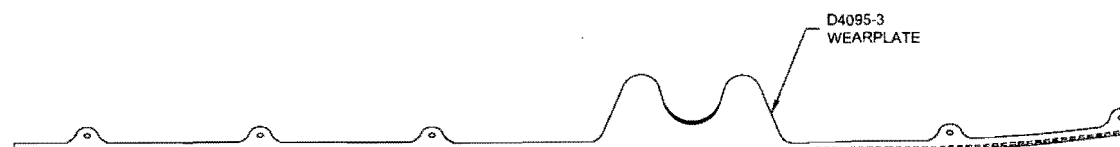
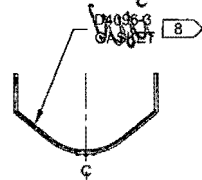
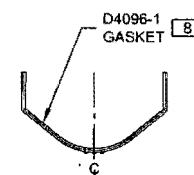
NOTE: Date & initial all entries

ITEM	QTY -041	QTY -043	PART NUMBER	DESCRIPTION
1	X		D4095-041	WEARPLATE ASSEMBLY
2		X	D4095-043	WEARPLATE ASSEMBLY
3	1		D4095-1	WEARPLATE
4		1	D4095-3	WEARPLATE
5	1		D4096-1	GASKET
6		1	D4096-3	GASKET
7	A/R	A/R	1300 (OR 1300L)	3M SCOTCH-GRIP ADHESIVE

4215
110224
PLUS ONE ROCK (B)



D4095-041 WEARPLATE ASSEMBLY



D4095-043 WEARPLATE ASSEMBLY

#66582

RELEASED
2010-09-07
NM

D4095-041/-043 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4095-04X" AND B/N "BXXXXX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: D4095-041 = 2.60 lbs; D4095-043 = 2.58 lbs
- 8) AFTER FINISH, BOND GASKET TO INNER SURFACE OF WEARPLATE USING A THIN LAYER OF 3M 1300/1300L SCOTCH-GRIP ADHESIVE
- 9) PARTS ARE SYMMETRIC ABOUT C

APPLY THIN
COAT OF OIL
THICK

PLUS ONE ROCK (B)

110224

A NEW ISSUE		MB 10.04.20	
REV.	DESCRIPTION	BY	DATE
DESIGN	1		
DRAWN	1		
CHECKED	1		
MFG. APPR.	1		
APPROVED	1		
DE APPR.	1		
DATE	10.04.20		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D4095
TITLE WEARPLATE
REV. A SHEET 1 OF 4
SCALE NTS

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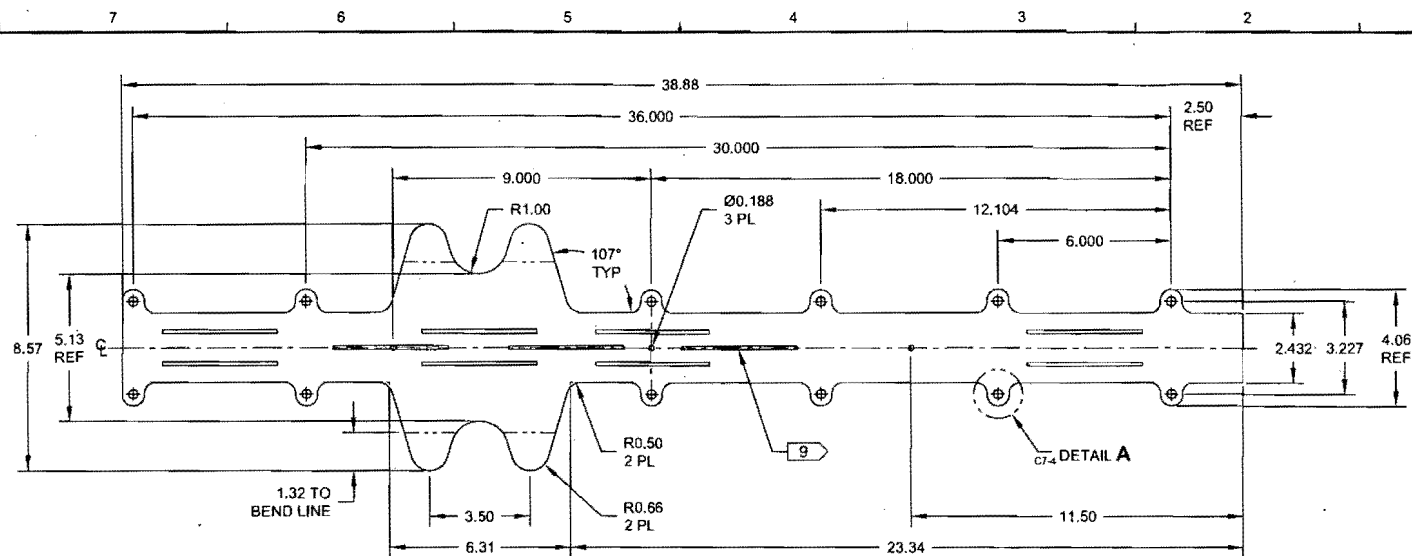
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

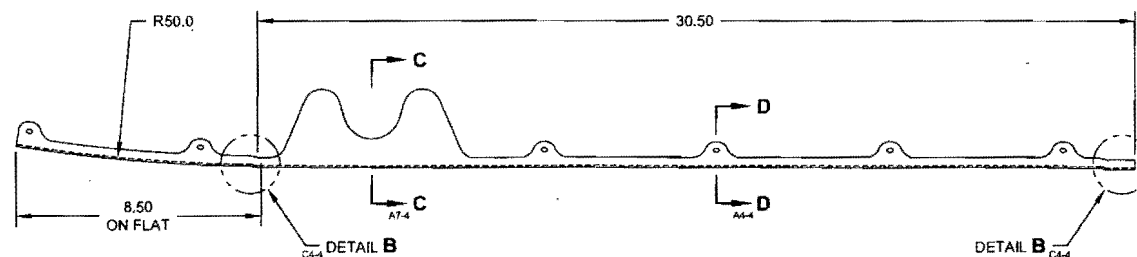
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4095-1F FLAT PATTERN 1



D4095-1 BENDING DETAIL
(MAKE FROM D4095-1F)

D4095-1/-1F/-3/-3F NOTES:

- 1) MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH, 16 GAUGE (0.063 THICK)
PER AMS 5513 (304) OR AMS 5524 (316), OR ASTM A240 OR ASME SA240
REF DART MATERIAL SPEC M304S16GA
- 2) FINISH: POWDER COAT GREY SANDEX (REF 4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.015 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D4095-1 = 2.18 lbs; D4095-3 = 2.16 lbs
- 8) WELDING: PER DART QSI 004
- 9) 2059B HARDCOAT WELD: 4.0 LONG X 0.063 TO 0.125 HIGH, 11 PL
WELD AFTER BENDING AS ILLUSTRATED PER DT8308
- 10) PARTS ARE SYMMETRIC ABOUT C

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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4095	SHEET 2 OF 4
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DE APPR.		WEARPLATE	NTS
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2010-06-07

#66582

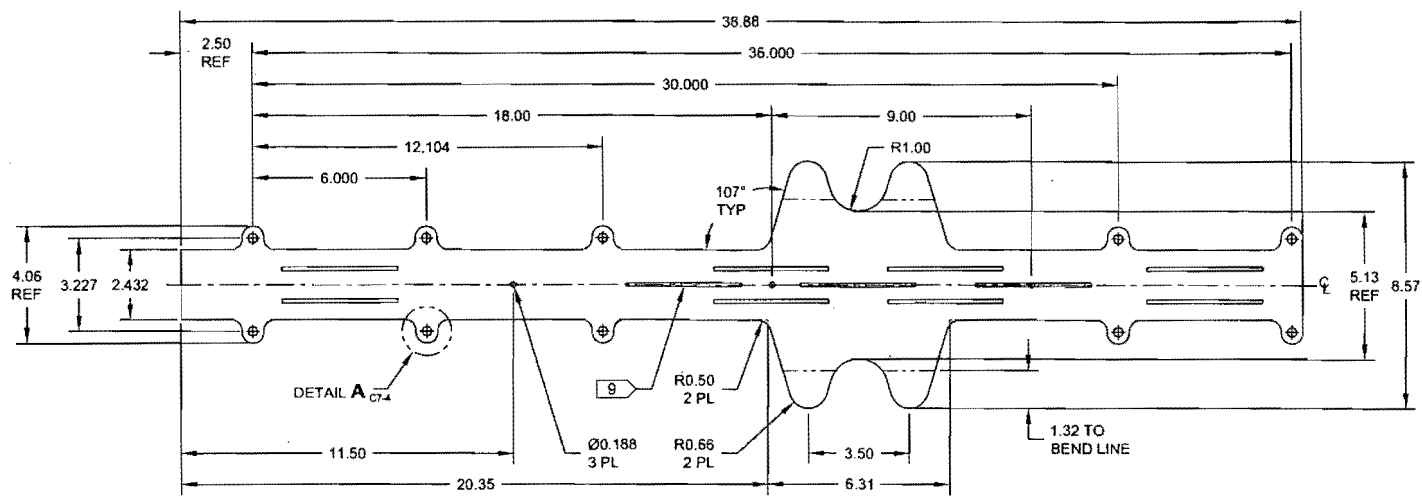
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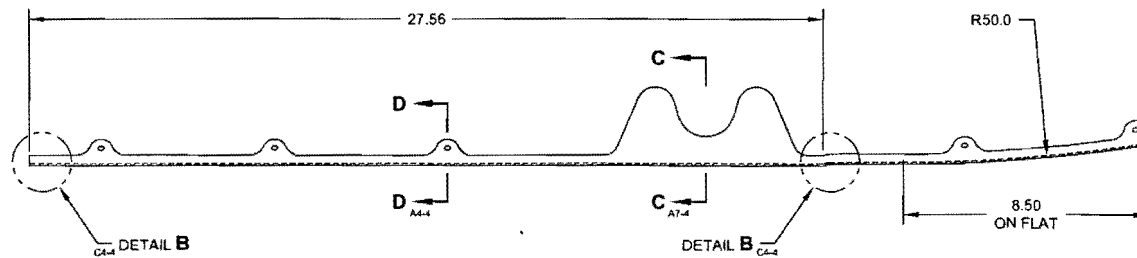
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4095-3F FLAT PATTERN 1



D4095-3 BENDING DETAIL
(MAKE FROM D4095-3F)

#66582

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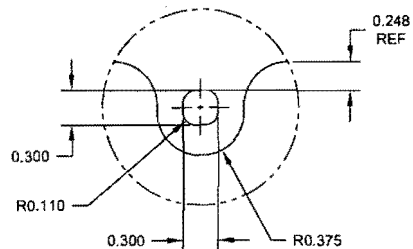
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

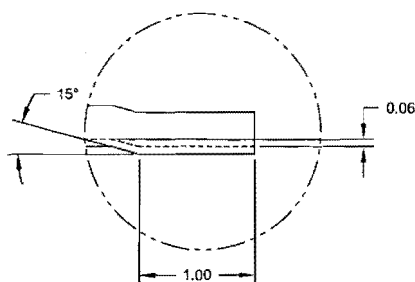
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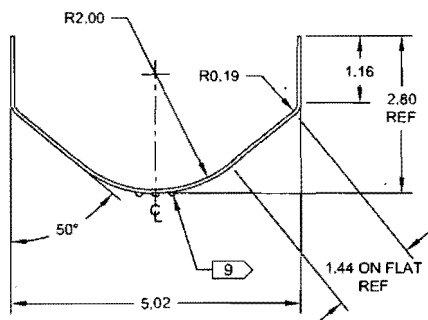
DETAIL A: TAB DETAIL

SCALE 4X C3-2 C6-3



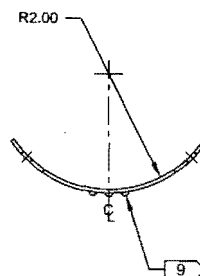
DETAIL B: JOGGLE DETAIL

SCALE 4X B2-2 B5-2 B4-3 B7-3



SECTION C-C

SCALE 2X B5-2 B4-3



SECTION D-D

SCALE 2X

#66582

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DE APPR.	HA	WEARPLATE	NTS
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Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3

REF. CANADIAN STC: SH05-37
REF. FAA STC: SR01583SE
REF. EASA STC: EASA.IM.R.S.01126

PURPOSE:

The purpose of this service instruction is to introduce an alternate wearplate installation for the D412-742-011/-013 Skidtube Installations. The new DSI-9517-011 Wearplate Kit consists of new wearplates and gaskets destined to replace existing D3564-1/-3 Wearshoes and D3566-1/-3 Gaskets. The components in the DSI-9517-011 Wearplate Kit are as defined in the parts list on sheet 4 of this service instruction.

INSTALLATION PROCEDURE:

Replace D3564-1/-3 Wearshoes and D3566-1/-3 Gaskets with D4095-041/-043 Wearplates Assemblies as follows:

1. Remove existing D3564-1/-3 Wearshoes and D3566-1/-3 Gaskets per Item 32.6.1 of ICA-D412-742. It might be necessary to loosen the aft end of D3564-5 Wearshoe and D3566-5 Gasket.
2. Remove qty.(4) AN4C52A Bolts, D3403-1 Bushings, and qty.(8) D3672-11 Washers as indicated in Figures 1 and 2 of this service instruction.
3. Inspect the skidtube and saddles per Chapter 5 of ICA-D412-742.
4. Seal existing inserts located on both sides of the skidtube in area shown in Figures 1 and 2 of this service instruction using Sikaflex -241/-291 or Proseal 890 or MIL-S-8802 Class 2B sealant.
5. Locate the DSI-9517-011 Wearplate Kit as shown in Figure 1 and 2 of this service instruction.
6. Transfer drill qty.(2) Ø0.438 hole from the skidtube/saddle to the D4095-041/-043 Wearplates Assemblies. Deburr. Touch up finish per Item 5.2.14 of ICA-D412-742 as required.
7. Install the DSI-9517-011 Wearplate Kit using the same AN3C hardware as shown in ICA-D412-742. Torque to 15-25 in-lbs (1.7-2.8 N-m).
8. Install D3403-5 Bushings and AN4C53A Bolts in lieu of D3403-1 Bushings and AN4C52A Bolts removed at step 2 above. Ensure that the nuts on the AN4C Bolts are on the inboard side of the skidtube. Torque to 50-70 in-lbs (5.7-7.9 N-m).
9. Amend weight and balance per the Weight and Balance Table below.

WEIGHT AND BALANCE:

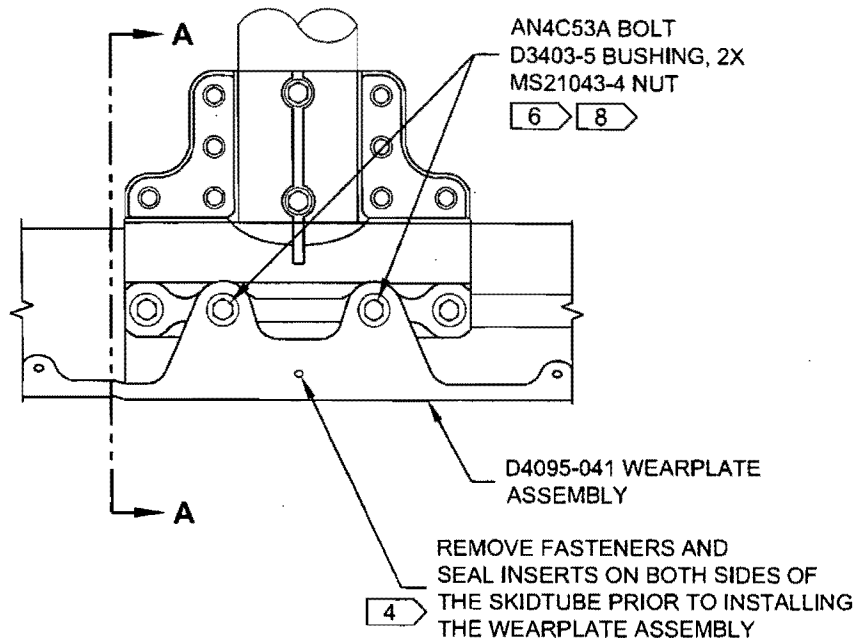
Use the following weight and balance information for DART D412-742-011/-013 skidtube and saddle installations equipped with DSI-9517-011 Wearplate Kit.

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		ARM	MOMENT	ARM	MOMENT
D412-742-011 <i>Float Skidtube Installation with DSI-9517-011 Kit Installed</i>	70.0 lb 31.8 kg	±55.0 in ±1.40 m	±3850 in-lb ±44.5 m-kG	130 in 3.3 m	9100 in-lb 105 m-kG
D412-742-013 <i>Float Skidtube Installation with DSI-9517-011 Kit Installed</i>	70.0 lb 31.8 kg	±55.0 in ±1.40 m	±3850 in-lb ±44.5 m-kG	130 in 3.3 m	9100 in-lb 105 m-kG

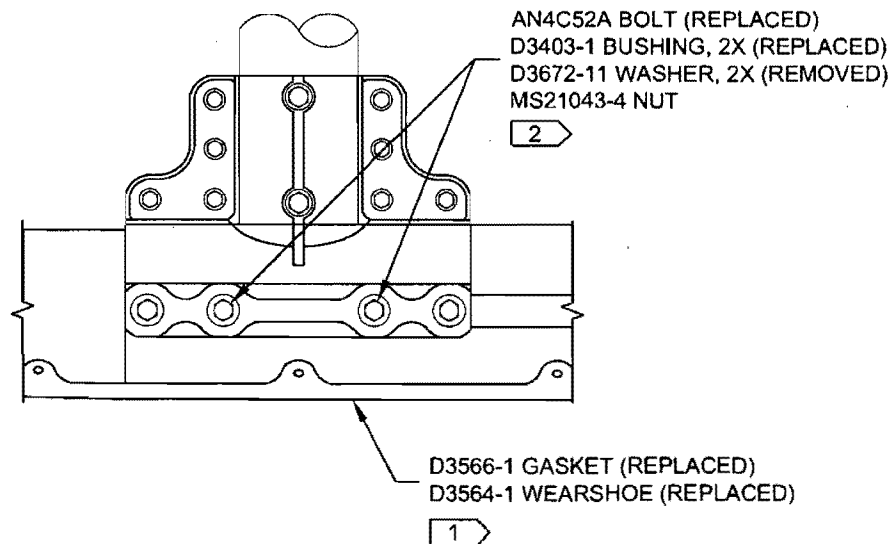
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DRAWN	<i>[Signature]</i>	PORT HADLOCK, WA	
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MFG. APPR.	N/A	DSI 9517	SHEET 1 OF 6
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	ALTERNATE WEARPLATE KIT	NTS
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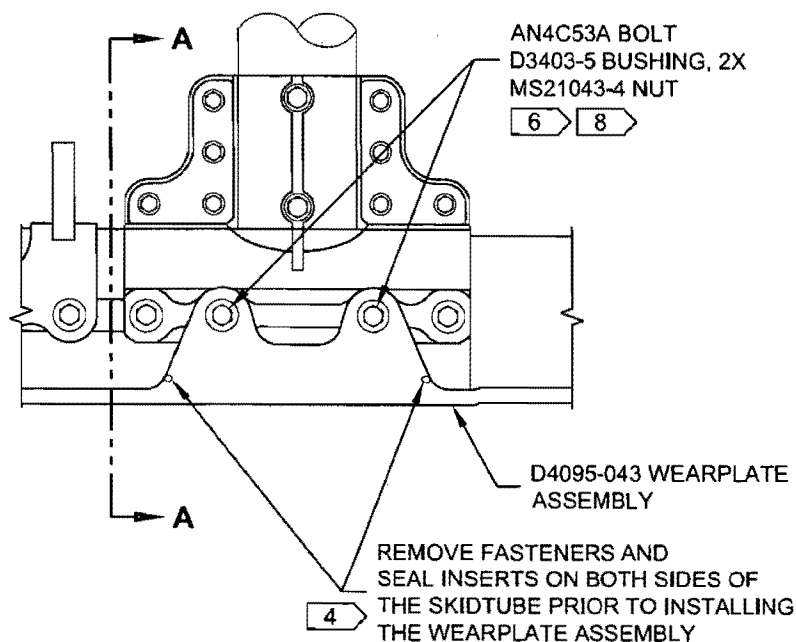


**FIGURE 1: CHANGE AT FORWARD SADDLE LOCATION
WITH DSI-9517-011 KIT INSTALLED**

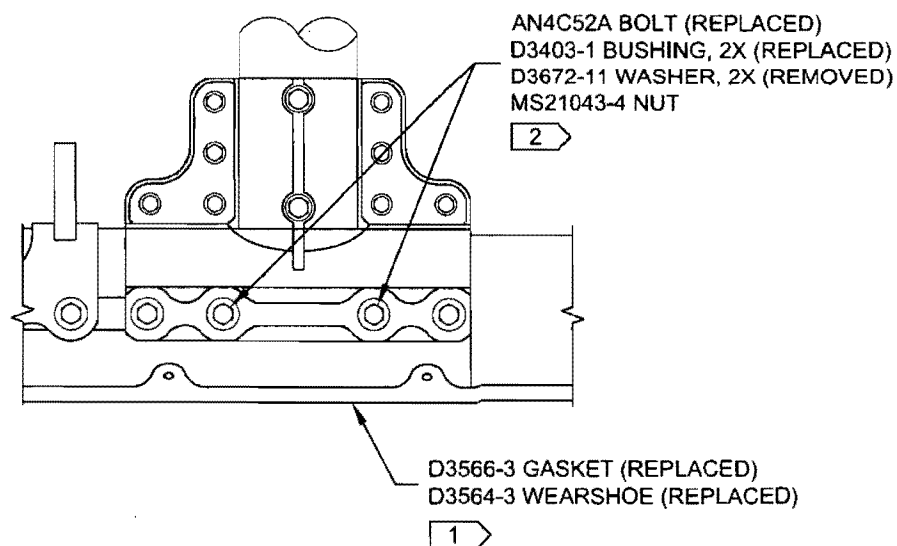
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IS:



WAS:



**FIGURE 2: CHANGE AT AFT SADDLE LOCATION
WITH DSI-9517-011 KIT INSTALLED**

66502

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MFG. APPR.	N/A	DSI 9517	SHEET 3 OF 6
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THE PARTS LISTS IN SECTION 32.15 OF ICA-D412-742 (PAGES 53 AND 55) AND SECTION 5.1 OF IIN-D412-742 (PAGES 16 AND 17) ARE AMENDED AS FOLLOWS WHEN OPTIONAL DSI-9517-011 KIT IS INSTALLED:

32.15 D412-742-011 (PMA/OEM) FLOAT SKIDTUBE INSTALLATION PARTS LIST (ICA-D412-742)
5.1 D412-742-011 (PMA/OEM) FLOAT SKIDTUBE INSTALLATION PARTS LIST (IIN-D412-742)

Item	QTY -011	QTY -041	QTY -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

IS:

3		10		AN3C6A	BOLT (REMOVED QTY.2)
4		4		AN3C7A	BOLT (REMOVED QTY.4)
5		38		AN960C10L	WASHER (REMOVED QTY.6)

21A		1		D4095-041	WEARPLATE ASSEMBLY
21B		*1		*D4096-1 (PART OF D4095-041)	*GASKET (BONDED TO D4095-041, REPLACES D3566-1)
22A		1		D4095-043	WEARPLATE ASSEMBLY
22B		*1		*D4096-3 (PART OF D4095-043)	*GASKET (BONDED TO D4095-043, REPLACES D3566-3)

46	8			D3403-1	BUSHING (REPLACES QTY.4 WITH D3403-5)
46A	8			D3403-5	BUSHING (REPLACES QTY.4 D3403-1)

49	4			AN4C52A	BOLT (REPLACES QTY.4 WITH AN4C53A)
49A	4			AN4C53A	BOLT (REPLACES QTY.4 AN4C52A)

53	8			D3672-11	WASHER (REMOVED QTY.8)
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WAS:

3		12		AN3C6A	BOLT
4		8		AN3C7A	BOLT
5		44		AN960C10L	WASHER

21A		1		D3564-1	WEARPLATE
21B		1		D3564-3	WEARPLATE
22A		1		D3566-1	GASKET
22B		1		D3566-3	GASKET

46	16			D3403-1	BUSHING
----	----	--	--	---------	---------

49	8			AN4C52A	BOLT
----	---	--	--	---------	------

53	16			D3672-11	WASHER
----	----	--	--	----------	--------

*BONDING IS ACHIEVED USING 3M 1300/ 1300L SCOTCH GRIP ADHESIVE.

66502

DESIGN	<i>1</i>	DART AEROSPACE USA, INC	
DRAWN	<i>1</i>	PORT HADLOCK, WA	
CHECKED	<i>90</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9517	SHEET 5 OF 6
APPROVED	<i>140</i>	TITLE	SCALE
DE APPR.	<i>140</i>	ALTERNATE WEARPLATE KIT	NTS
DATE	10.04.21	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

THE PARTS LISTS IN SECTION 32.16 OF ICA-D412-742 (PAGES 57 AND 59) AND SECTION 5.2 OF IIN-D412-742 (PAGES 18 AND 19) ARE AMENDED AS FOLLOWS WHEN OPTIONAL DSI-9517-011 KIT IS INSTALLED:

32.16 D412-742-013 (APICAL TRI-BAG) FLOAT SKIDTUBE INSTALLATION PARTS LIST (ICA-D412-742)
5.2 D412-742-013 (APICAL TRI-BAG) FLOAT SKIDTUBE INSTALLATION PARTS LIST (IIN-D412-742)

Item	QTY -013	QTY -043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

IS:

3		10	AN3C6A	BOLT (REMOVED QTY.2)
4		4	AN3C7A	BOLT (REMOVED QTY.4)
5		38	AN960C10L	WASHER (REMOVED QTY.6)

21A	1		D4095-041	WEARPLATE ASSEMBLY
21B	*1		*D4096-1 (PART OF D4095-041)	*GASKET (BONDED TO D4095-041, REPLACES D3566-1)
22A	1		D4095-043	WEARPLATE ASSEMBLY
22B	*1		*D4096-3 (PART OF D4095-043)	*GASKET (BONDED TO D4095-043, REPLACES D3566-3)

46	8		D3403-1	BUSHING (REPLACES QTY.4 WITH D3403-5)
46A	8		D3403-5	BUSHING (REPLACES QTY.4 D3403-1)

49	4		AN4C52A	BOLT (REPLACES QTY.4 WITH AN4C53A)
49A	4		AN4C53A	BOLT (REPLACES QTY.4 AN4C52A)

53	8		D3672-11	WASHER (REMOVED QTY.8)
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WAS:

3		12	AN3C6A	BOLT
4		8	AN3C7A	BOLT
5		44	AN960C10L	WASHER

21A		1	D3564-1	WEARPLATE
21B		1	D3564-3	WEARPLATE
22A		1	D3566-1	GASKET
22B		1	D3566-3	GASKET

46	16		D3403-1	BUSHING
----	----	--	---------	---------

49	8		AN4C52A	BOLT
----	---	--	---------	------

53	16		D3672-11	WASHER
----	----	--	----------	--------

*BONDING IS ACHIEVED USING 3M 1300/ 1300L SCOTCH GRIP ADHESIVE.

66502

DESIGN	<i>J</i>	DART AEROSPACE USA, INC	
DRAWN	<i>J</i>	PORT HADLOCK, WA	
CHECKED	<i>97</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9517	SHEET 6 OF 6
APPROVED	<i>140</i>	TITLE	SCALE
DE APPR.	<i>140</i>	ALTERNATE WEARPLATE KIT	NTS
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